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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/755,312	12/19/2000	John E. Maloney	PA000190	5034

23696 7590 07/28/2004

Qualcomm Incorporated
Patents Department
5775 Morehouse Drive
San Diego, CA 92121-1714

EXAMINER

CUMMING, WILLIAM D

ART UNIT PAPER NUMBER

2683

DATE MAILED: 07/28/2004

12

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/755,312

Applicant(s)

MALONEY ET AL.

Examiner

WILLIAM D. CUMMING

Art Unit

2683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,4-7,11-15 and 20 is/are pending in the application.
- 4a) Of the above claim(s) 2,3,8-10 and 16-19 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,4-7,11-15 and 20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

1. Applicants' election with traverse of election in the reply filed on March 15, 2004 is acknowledged. Applicants' attorney failed to submit arguments why the election of species is incorrect or support applicants' traversal.

2. The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 5, 7, 11, 12 and 13, as understood, are rejected under 35 U.S.C. 102(b) as being clearly anticipated by **Tanagawa, et al.**

Tanagawa, et al disclose a method and system of parallel programming an electronic device's memory (figures 1 and 6, #17) with test code and system code prior board level testing during manufacturing (column 1, line 55 to column 2, line 30, etc.). The method and system comprising the steps and means of programming the electronic device (#1) with first instructions and second instructions (figure 5). The first instructions comprise a test code for use during board level testing and the second instructions comprise partial system code for

system level testing the electronic device (#1, column 2, line 50 to column 3, line 5, etc). Executing the first instruction during board level testing of the electronic device (#1) to determine the condition of the electronic device (#1) independent of the second instructions (column 5, line 31-45, etc.). Programming the electronic device (#1) to determine the condition of the electronic device (#1) independent of the second instructions (column 5, line 34-54, etc.) and executing the second and third instructions during system level testing of the electronic device.

Regarding the fourth instructions, note column 2, line 56 to column 3, line 11.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 4, 6, 14, 15, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Tanagawa, et al.**

Tanagawa, et al disclose all subject matter, note the above paragraphs, except for flash memory, flash RAM, and U/I codes (or UI codes). Flash memory or flash memory RAM are very well known in the art and not invented by applicants, for electronic devices. The examiner takes Official notice as such. Hence, it would have been very obvious to one of ordinary skill in the art at the time the claimed invention was made to incorporate the old and well know use of either a flash memory or flash RAM in the **Tanagawa, et al** in order to erase the memory of **Tanagawa, et al's** electronic device for reprogramming at a future date.

Regarding the UI codes, UI codes are used by such companies like AT&T, Sun, UNISYS and Fujitsu for years now and is standard software for UNIX type systems and not invented by applicants. UI codes are well known in the art and the Examiner takes Official notice as such. Hence, it would have been very obvious to one of ordinary skill in the art at the time the claimed invention was made to incorporate the old and well know use of UI codes in order for the electronic device of **Tanagawa, et al** to be programmed and communicate with UNIX type of systems.

Claim Rejections - 35 USC § 112

9. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

10. Claims 6, 13 and 15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 13 is confusing since the parent claim 12 states that the first and second input device are separate by claim 13 says they are the same. It can not be both at the same time.

Regarding claims 6 and 15, all abbreviations, symbols, acronyms, functional designations, sigla, letter combinations, code names, initialisms, nicknames, mnemonic devices, project names, alphabetical contractions and general slang must be positively defined and identified in the claims. For

examination purpose only, the examiner shall take U/I codes to mean UI codes.

UI codes are UNIX International consortium of computer hardware and software codes of open software standards for the UNIX industry.

Specification

11. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

The third instructions are U/I codes.

Claim Objections

12. Claims 4 and 6 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicants are required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. It has been held that to be entitled to weight in method claims, the recited structure limitations therein must affect the method in a manipulative sense, and not to amount to the mere claiming of a use or not the use of a particular structure. *Ex parte Pfeiffer*, 1962 C.D. 408 (1961). The dependent claims fail to claim a further steps, hence it fails to limit the method of the previous claim.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shi discloses a muticomputer system and method.

Zhang, et al disclose a code mode for graphical programming system which invokes excution of textual code.

Maymudes shows a remote controlled system with computer based remote control facilitator.

14. AMENDMENTS NOW MUST BE SUBMITTED IN REVISED FORMAT

All amendments received by the Office on or after July 30, 2003 must be in compliance with the rules as required by the Revised Amendment Practice. This practice requires the submission of an amendment document that includes separate sections for amendments to the claims, drawings, specification and abstract, each beginning on a new sheet of paper. If an amendment is received as a preliminary amendment or as a *bona fide* reply under 37 CFR 1.111, that has compliant amendments to one or more separate section(s), but also includes one, or more, separate section(s) with non-compliant amendments, the Office will mail a Notice of Non-Compliant Amendment requiring correction to the non-compliant section(s) within a time period set by the Office. When making corrections, applicant should just resubmit the needed corrected section(s), and correspondingly, should not resubmit the entire amendment document. For example, if the amendment included compliant amendments to the specification and claims, and non-compliant amendments to the drawings, a notice requiring resubmission of compliant amendments to the drawings would be sent. In reply to the notice, applicant should only submit a compliant amendment to the drawings, and not the previously compliant amendments to the specification and claims. If any additional, or further, amendments to the claims are desired, the changes must be made relative to the previous compliant amendment to the claims. The Office will consider both the previous compliant amendment to the claims, and the supplemental compliant amendment to the claims, after the Office receives the compliant amendment to the drawings.

An amendment submitted on or after July 30, 2003 as part of a reply after the close of prosecution (e.g., as a reply under 37 CFR 1.116) that is not compliant with the

Revised Amendment Practice will not act to toll the outstanding time period. See 37 CFR 1.135(c). A notice (e.g., an advisory action) may be mailed by the Office specifying which section(s) of the amendment was not in compliance with the Revised Amendment Practice, but no new time period will be given to provide a compliant section.

REVISED FORMAT OF AMENDMENTS

Begin on separate sheets:

Each section of an Amendment (e.g., Claim Amendments, Specification Amendments, Remarks) should begin on a separate sheet. *For example*, in an amendment containing a.) introductory comments, b.) amendments to the claims, c.) amendments to the specification, and d.) remarks, each of these sections should begin on a separate sheet. This will facilitate the process of separately indexing and scanning of each part of an amendment document for placement in an electronic file wrapper.

Two versions of amended part(s) no longer required:

The current requirement in 37 CFR 1.121(b) and (c) to provide two versions (a clean version and a marked up version) of each replacement paragraph, section, substitute specification or claim will be waived where an amendment is submitted in the following format:

A) Amendments to the claims:

Each amendment document that includes a change to an existing claim, or submission of a new claim, **must include a complete listing** of all claims in the application. After each claim number, the status must be indicated in a parenthetical expression, and the text of each claim under examination (with markings to show current changes) must be presented. The listing will serve to replace all prior versions of the claims in the application.

(1) The current status of all of the claims in the application, including any previously canceled or withdrawn claims, must be given. Status is indicated in a parenthetical expression following the claim number by one of the following: (original), (currently amended), (previously amended), (canceled), (withdrawn), (new), (previously added), (reinstated – formerly claim #_), (previously reinstated), (re-presented – formerly dependent claim #_), or (previously re-presented). The text of all pending claims under examination must be submitted each time any claim is amended. Canceled and withdrawn claims should be indicated by only the claim number and status.

(2) All claims being currently amended must be presented with markings to indicate the changes that have been made relative to the immediate prior version. The changes in any amended claim should be shown by strikethrough (for deleted matter) or underlining (for added matter). An accompanying clean version is not required and should not be presented. Only claims of the status "currently amended" will include markings.

(3) The text of pending claims not being amended must be presented in clean version, i.e., without any markings. Any claim presented in clean version will constitute an assertion that it has not been changed relative to the immediate prior version.

(4) A claim may be canceled by merely providing an instruction to cancel. Listing a claim as

canceled will constitute an instruction to cancel. Any claims added by amendment must be indicated as (new) and shall not be underlined.

- (5) All of the claims in each amendment paper must be presented in ascending numerical order. Consecutive canceled or withdrawn claims may be aggregated into one statement (e.g. Claims 1 – 5 (canceled)).

Example of listing of claims:

Claims 1-5 (canceled)

Claim 6 (withdrawn)

Claim 7 (previously amended): A bucket with a handle.

Claim 8 (currently amended): A bucket with a ~~green~~ blue handle.

Claim 9 (withdrawn)

Claim 10 (original): The bucket of claim 8 with a wooden handle.

Claim 11 (canceled)

Claim 12 (new): A bucket with plastic sides and bottom.

Claim 13 (previously added): A bucket having a circumferential upper lip.

Claim 14 (re-presented – formerly claim 11): A black bucket with a wooden handle.

B) Amendments to the specification:

Amendments to the specification may be made by presenting a replacement paragraph, section or substitute specification marked up to show changes made relative to the immediate prior version. An accompanying clean version is not required and should not be presented.

C) Amendments to drawing figures:

Drawing changes may be made by presenting replacement figures which incorporate the proposed changes and which comply with § 1.84. An explanation of the changes made must be presented in the remarks section of the amendment. If the changes to the drawing figure(s) are not approved by the examiner, applicant will be informed in the next Office action. Any replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even though only one figure may be amended. The figure or figure number of the amended drawing should not be labeled as "amended."

Any questions regarding the submission of amendments pursuant to the revised practice set forth in this flyer should be directed to the following legal advisors in the Office of Patent Legal Administration (OPLA): Elizabeth Dougherty (Elizabeth.Dougherty@uspto.gov), Gena Jones (Eugenia.Jones@uspto.gov) or Joe Narcavage (Joseph.Narcavage@uspto.gov). For information on the waiver or legal aspects of the prototype, please contact Jay Lucas (Jay.Lucas@uspto.gov), Senior Legal Advisor (PCTLA) or Rob Clarke (Robert.Clarke@uspto.gov), Senior Legal Advisor (OPLA). Alternatively, further information may be obtained by calling OPLA at (703) 305-1616.

15. Patent Customers Advised to FAX Communications to USPTO

Facsimile transmissions of communications to the Office can significantly expedite processing of the communication within the Office. For example, when an assignment document is faxed to the Office, the average cycle time to process, record, and send a notice of recordation is one calendar day, whereas when the document is mailed to the Office, the average cycle time is 113 calendar days. See Status of Office of Public Records Services, 1269 Off. Gaz. Pat. Office 19,20 (April 1, 2003).

With many of the facsimile numbers provided below (i.e., those numbers below with 746 or 872 after the area code in the facsimile number), a return receipt will be automatically generated that will include the number of pages received as well as the date and time the facsimile was received. Additionally, the return receipt will include an image of the received cover page. The return receipt will be automatically sent to the sender's facsimile machine so long as the sender's facsimile number is properly programmed in the sending facsimile machine, and the sender's facsimile machine is available to receive a fax immediately following the original transmission. (Note that with area code changes, or with movement of a facsimile machine from one number to another, the facsimile machine's number may need to be reprogrammed.) Even if a return receipt is not desired, at least the first page of the facsimile transmission must clearly indicate the date and time the transmission is sent, an identification of the business, other entity, or individual sending the transmission, and the telephone number of the sending machine or of such business, other entity, or individual. See 47 U.S.C. 227(d)(1)(B) and 47 CFR 68.318(d). A return receipt will be attempted to be sent several times, but if a busy signal is repeatedly received, a return receipt will not be received by the sender. Applicants are advised to use the certificate of facsimile transmission procedures when submitting a reply to an Office action by facsimile (see 37 CFR 1.6 and 1.8). Applicants are also advised to retain the return receipt in the event that the Office has no record of the facsimile submission.

PTO Form 2038 should be used when authorizing payment by credit card; this form is maintained separate from the file to ensure confidentiality. Note that current processing of assignment documents now permits use of a credit card, but that PTO form 2038 should be used to prevent credit card information from being included in public records. Form PTO-2038 may be downloaded at <http://www.uspto.gov/web/forms/2038.pdf> from the USPTO website.

Faxes to the Office of Initial Patent Examination

Responses to notices from the Office of Initial Patent Examination (OIPE) and requests for corrected filing receipts may be filed by facsimile. New applications (other than continued prosecution applications (CPAs) under 37 CFR 1.53(d)) may not be filed by facsimile. The following is a list of Official Facsimile Numbers for the OIPE:

Fax number for corrected Filing Receipt Requests: 703-746-9195

Fax number for Response to Notice to File

Missing Parts (drawings may not be submitted by fax): 703-746-4060

Telephone number for Customer Service: 703-308-1202

Faxes to the Technology Centers

In addition, communications may be faxed to the Technology Centers. The following is a list of Official Facsimile Numbers for the Technology Centers:

TC1600:

Before Final: 703-872-9306

After Final: 703-872-9307

Customer Service: 703-872-9305

Telephone number for customer service: (703) 308-0198

TC2800:

Before Final: 703-872-9318

After Final: 703-872-9319

Customer Service: 703-872-9317

Telephone number for customer service: (703)306-3329

TC1700:

Before Final: 703-872-9310

After Final: 703-872-9311

Customer Service: 703-872-9309

Telephone number for customer service: (703)306-5665

TC2900:

Before Final: 703-872-9322

After Final: 703-872-9323

Customer Service: 703-872-9321

Telephone number for customer service: (703)306-5648

TC2100:

Before Final: 703-746-7239

After Final: 703-746-7238

Customer Service: 703-746-7240

Telephone number for customer service: (703)306-5631

TC3600:

Before Final: 703-872-9326

After Final: 703-872-9327

Customer Service: 703-872-9325

Telephone number for customer service: (703)306-5771

TC2600:

Before Final: 703-872-9314
After Final: 703-872-9315
Customer Service: 703-872-9313
Telephone number for customer service: (703)306-0377

TC3700:

Before Final: 703-872-9302
After Final: 703-872-9303
Customer Service: 703-872-9301
Telephone number for customer service: (703)306-5648

Faxes to the Office of Patent Publication

Patent applicants are also reminded that 37 CFR 1.6(d) permits payment of an issue fee and a publication fee (if required) by facsimile transmission. When drawings are submitted with payment of an issue fee, they may be submitted by facsimile, although applicants are reminded that the facsimile process may reduce the quality of the drawings, and the Office will generally print the drawings received.

The applicable telephone numbers for payment of the issue and/or publication fee(s) by facsimile transmission are as follows:

Fax number for Issue Fee
(and any Publication Fee) Payments: (703) 746-4000

Telephone number to check on receipt
of payment (with Office of Patent Publication): (703) 305-8283

The Office of Patent Publication also handles many matters related to publication of patent applications. For example, express abandonments under 37 CFR 1.138(c) are handled by the Pre-Grant Publication Division of the Office of Patent Publication. In addition, requests to rescind a nonpublication request and notices of foreign filing should be directed to the Pre-Grant Publication Division. Questions regarding publication of patent applications (or rescissions of nonpublication requests) may also be directed by e-mail to pgpub@uspto.gov.

Fax number for PGPUB correspondence: (703) 305-8568

Telephone number for the Pre-Grant Publication Division: (703) 605-4283

Faxes of Assignment Documents

Facsimile transmission to record an assignment or other documents affecting title is also accepted. This process allows customers to submit their documents directly into the automated Patent and Trademark Assignment System and receive the resulting recordation notice at their fax machine. Credit card payments to record assignment documents are now accepted, but use of the credit card form (PTO Form-2038) is required for the credit card information to be separated from the assignment records. Only documents with an identified patent application or patent number, a single cover sheet to record a single type of transaction, and the fee paid by a USPTO deposit account or credit card may be submitted via facsimile. Please refer to our Web Site, at <http://www.uspto.gov/web/offices/ac/ido/opr/ptasfax.pdf> for more information regarding the submission of assignment documents via facsimile.

Fax number for Automated Patent
and Trademark Assignment system: 703-306-5995

Telephone number for Assignment
Division for assistance: 703-308-9723

Faxes to the Office of Petitions

Applicable correspondence may be submitted to the Office of Petitions via facsimile. For questions concerning Petitions, contact the Office of Petitions at the numbers below:

Fax number for the Office of Petitions: 703-308-6916

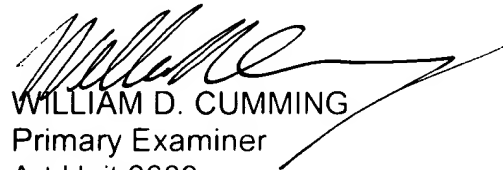
Telephone number for customer service and inquiries: 703-305-9282

16. If applicants wish to request for an interview, an "*Applicant Initiated Interview Request*" form (PTOL-413A) should be submitted to the examiner prior to the interview in order to permit the examiner to prepare in advance for the interview and to focus on the issues to be discussed. This form should identify the participants of the interview, the proposed date of the interview, whether the interview will be personal, telephonic, or video conference, and should include a brief description of the issues to be discussed. A copy of the completed "*Applicant Initiated Interview Request*" form should be attached to the Interview Summary form, PTOL-413 at the completion of the interview and a copy should be given to applicant or applicant's representative.

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **WILLIAM D. CUMMING** whose telephone number is 703-305-4394. The examiner can normally be reached on Monday-Thursday, 11:30am to 8:00pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **WILLIAM TROST** can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

18. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


WILLIAM D. CUMMING
Primary Examiner
Art Unit 2683

wdc



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